

# Submittal of Annual Reports and other Compliance Documents for Municipal Separate Storm Sewer System (MS4) Permits

NOTE: Missing or incomplete fields are highlighted at the bottom of each page. You may save, close and return to your draft permit as often as necessary to complete your application. After 120 days your draft is deleted.

## Reporting Information

**Submittal Type:** Annual Report

**Project Name:** City of Menomonie 2017 Report

**County:** Dunn

**Municipality:** Menomonie, City

**Facility Number:** 31426

**Reporting Year:** 2017

## Required Attachments and Supplemental Information

Please complete the contents of each tab to submit your MS4 permit compliance document. The information included in this checklist is necessary for a complete submittal. A complete and detailed submittal will help us review about your MS4 permit document. To help us make a decision in the shortest amount of time possible, the following information must be submitted:

### Annual Report

- Review related web site and instructions for [Municipal storm water permit eReporting](#) [Exit Form]
- Attach the following items as appropriate using the attachments tab above
  - Construction Site Pollution Control Annual Report Summary
  - Illicit Discharge Detection and Elimination Annual Report Summary
  - Leaf and Yard Waste Management
  - Municipal Cooperation Attachment
  - Municipal Facility Inspections
  - Pollution Prevention Annual Report Summary
  - Post-Construction Storm Water Management Annual Report Summary
  - Public Education and Outreach Annual Report Summary
  - Public Involvement and Participation Annual Report Summary
  - Storm Water Consortium/Group Report
  - Storm Sewer Map Annual Report Attachment
  - Storm Water Quality Management Annual Report Attachment
  - TMDL Attachment
  - Winter Road Maintenance
  - Other Annual Report Attachment
- Complete all required forms and upload required attachments
- Sign and Submit form

**Municipal Contact Information- Complete**

**Notice:** Pursuant to s. NR 216.07(8), Wis. Adm. Code, an owner or operator of a Municipal Separate Storm Sewer System (MS4) is required to submit an annual report to the Department of Natural Resources (Department) by March 31 of each year to report on activities for the previous calendar year ("reporting year"). This form is being provided by the Department for the user's convenience for reporting on activities undertaken in each reporting year of the permit term. Personal information collected will be used for administrative purposes and may be provided to the extent required by Wisconsin's Open Records Law [ss. 19.31-19.39, Wis. Stats.].

**Note:** Compliance items must be submitted using the Attachments tab.

**Municipality Information**

**Name of Municipality** Menomonie, City

**Facility ID # or (FIN):** 31426

**Updated Information:** ☐ Check to update mailing address information

**Mailing Address:** 800 Wilson Avenue

**Mailing Address 2:**

**City:** Menomonie

**State:** Wisconsin

**Zip Code:** 54751 xxxxx or xxxxx-xxxx

Does the municipality rely on another government entity to satisfy some of the permit requirements?

☒ Yes ☐ No ☐ Unsure

Has there been any changes to the municipality's participation in group efforts towards permit compliances (i.e., the municipality has added or dropped consortium membership)?

☐ Yes ☒ No ☐ Unsure

**Primary Municipal Contact Person (Authorized Representative for MS4 Permit)**

☒ Select to **create new** primary contact

**First Name:** Randy

**Last Name:** Eide

☒ Select to **update** current contact information

**Title:** DPW

**Mailing Address:** 800 Wilson Avenue

**Mailing Address 2:**

**City:** Menomonie

**State:** WI

**Zip Code:** 54751 xxxxx or xxxxx-xxxx

**Phone Number:** 715-232-2207 **Ext:** xxx-xxx-xxxx

**Email:** reide@menomonie-wi.gov

## Additional Contacts Information (Optional)

Individual with responsibility for:  
(Check all that apply)

- ☐ I&E Program
- ☒ IDDE Program
- ☒ IDDE Response Procedure Manual
- ☐ Municipal-wide Water Quality Plan
- ☐ Ordinances
- ☒ Pollution Prevention Program
- ☐ Post-Construction Program
- ☒ Winter roadway maintenance

First Name: Bruce

Last Name: Heath

Title: Street Supervisor

Mailing Address: 621 11th Ave

Mailing Address 2:

City: Menomonie

State: WI

Zip Code: 54751      xxxxx or xxxxx-xxxx

Phone Number: 715-232-2302      Ext:      xxx-xxx-xxxx

Email: bheath@menomonie-wi.gov

Individual with responsibility for:  
(Check all that apply)

- ☐ I&E Program
- ☐ IDDE Program
- ☐ IDDE Response Procedure Manual
- ☒ Municipal-wide Water Quality Plan
- ☐ Ordinances
- ☐ Pollution Prevention Program
- ☒ Post-Construction Program
- ☐ Winter roadway maintenance

First Name: Robert

Last Name: Jones

Title: Design Engineer

Mailing Address: 604 Wilson Ave

Mailing Address 2:

City: Menomonie

State: WI

Zip Code: 54751      xxxxx or xxxxx-xxxx

Phone Number: 715-235-9081      Ext:      xxx-xxx-xxxx

Email: rob.jones@cedarcorp.com

## Missing Information



**Minimum Control Measures- Section 1 : Complete****1. Public Education and Outreach**

a. Complete the following information on Public Education and Outreach Activities related to storm water. Select the Mechanism that best describes how the topic message was conveyed to your population. Use the **Add Activity** to add multiple Mechanisms. For Quantity, choose the range for the number of Mechanisms chosen (i.e., number of workshops, events). Quantity and Estimated People reached are both optional.

Mechanism	Quantity (optional)	Est. People Reached (optional)	Regional Effort? (optional)
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**Topic:** Detection and elimination of illicit discharges

Informational booth at event                      1 - 9                                            ☒ Yes   ☐ No

Educational activities (School presentations, summer camps, etc)                      1 - 9                                            ☐ Yes   ☒ No

**Topic:** Management of materials that may cause storm water pollution from automobiles, pet waste, household hazardous waste and household practices

Informational booth at event                      1 - 9                                            ☒ Yes   ☐ No

Educational activities (School presentations, summer camps, etc)                      1 - 9                                            ☐ Yes   ☒ No

Educational activities (School presentations, summer camps, etc)                      Select...                                            ☒ Yes   ☐ No

**Topic:** Beneficial onsite reuse of leaves and grass clippings/proper use of lawn and garden fertilizers and pesticides

Informational booth at event                      1 - 9                                            ☒ Yes   ☐ No

Educational activities (School presentations, summer camps, etc)                      1 - 9                                            ☐ Yes   ☐ No

Workshops                      1 - 9                                            ☐ Yes   ☐ No

**Topic:** Management of stream banks and shorelines by riparian landowners to minimize erosion and restore and enhance the ecological value of waterways

Workshops                      1 - 9                                            ☒ Yes   ☐ No

**Topic:** Infiltration of residential storm water runoff from rooftop downspouts, driveways and sidewalks

Informational booth at event                      1 - 9                                            ☒ Yes   ☐ No

Educational activities (School presentations, summer camps, etc)                      1 - 9                                            ☐ Yes   ☒ No

Mechanism	Quantity (optional)	Est. People Reached (optional)	Regional Effort? (optional)
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**Topic:** Inform and where appropriate educate those responsible for the design, installation, and maintenance of construction site erosion control practices and storm water management facilities on how to design, install and maintain the practices

Educational activities (School presentations, summer camps, etc)      1 - 9            ☒ Yes   ☐ No

**Topic:** Identify businesses and activities that may pose a storm water contamination concern, and where appropriate, educate specific audiences on methods of storm water pollution prevention

Did not focus on this topic this reporting year      Select...            ☐ Yes   ☐ No

**Topic:** Promote environmentally sensitive land development designs by developers and designers, including green infrastructure and low impact development

Government event (public hearing, council meeting, etc.)      1 - 9            ☐ Yes   ☐ No

**Topic:** Other (describe):

Select...      Select...            ☐ Yes   ☐ No

**b.** Any other Public Education and Outreach program information for inclusion in the Annual Report may be added here or attached on the attachments page.

Education and Outreach Activities are also supported by our regional storm water education group -- Rain to Rivers of Western Wisconsin. Attached is a spreadsheet outlining all of the education and outreach activities the group has participated in. Rain to Rivers also supports education and outreach through: mini grants, advertising, public service announcements, handouts, Facebook, web sites and many other educational opportunities. The City of Menomonie has been a member of Rain to Rivers since the organization was formed.

## Missing Information

Do not close your work until you **SAVE**.

Form 3400-224 (09/17)

## Minimum Control Measures - Section 2 : Complete

### 2. Public Involvement and Participation

**a.** Describe how the municipality has kept the following local officials and municipal staff apprised of the municipal storm water discharge permit programs and its requirements.

Elected Officials

Elected officials are apprised of our municipal storm water discharge permit programs and requirements through council meetings and their review and approval of the annual report.

#### Municipal Officials

Municipal officials are kept apprised of our permit programs through weekly staff meetings and their active participation in the development of the annual report.

#### Appropriate Staff

City staff work various parts of our storm water program. In 2017 we completed an internal review of the roles and responsibilities of different departments associated with the storm water permit. After several review meetings a new roles and responsibilities document was approved. See attached document.

b. Complete the following information on Public Involvement Activities related to storm water. Select the mechanism that best describes how the topic message was conveyed to your population. Use the Add Activity to add multiple mechanisms. For Quantity, choose the range for number Mechanisms chosen (i.e., number of workshops, events). Quantity and Estimated People reached are both optional.

Mechanism	Quantity (optional)	Est. People Reached (optional)	Regional Effort? (optional)
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#### Topic: Storm Water Management Plan and/or updates

Presentation of Storm Water Information    1 - 9        ☐ Yes    ☒ No

#### Topic: Storm water related ordinance and/or updates

None    Select...        ☐ Yes    ☐ No

#### Topic: MS4 Annual Report

Government Event (Public Hearing, Council Meeting, etc)    1 - 9        ☐ Yes    ☒ No

Presentation of Storm Water Information    1 - 9        ☒ Yes    ☐ No

#### Topic: Volunteer Opportunities

Stream monitoring    20 - 49        ☐ Yes    ☒ No

Planting community rain garden    1 - 9        ☐ Yes    ☒ No

#### Topic: Other (describe) : UW Stout LAKES REU research and activities Outbrief

Public Workshop    1 - 9        ☒ Yes    ☐ No

Government Event (Public Hearing, Council Meeting, etc)    1 - 9        ☐ Yes    ☐ No



c. Any other Public Involvement and Participation program information for inclusion in the Annual Report may be added here or attached on the attachments page

Member of the Red Cedar Watershed TMDL Implementation Plan. Supporter of UW Stout Lakes REU research in the Red Cedar Watershed. Annual 2017 Dunn county Water Quality Specialist Report to the City Council.

## Missing Information

Do not close your work until you **SAVE**.

Form 3400-224 (09/17)

### Minimum Control Measures - Section 3 : Complete

#### 3. Illicit Discharge Detection and Elimination

- a. How many total outfalls does the municipality have?  ☐ Unsure
- b. How many outfalls did the municipality evaluate as part of their routine ongoing field screening program?  ☐ Unsure
- c. How many were confirmed illicit discharges?  ☐ Unsure
- d. How many illicit discharge complaints did the municipality receive?  ☐ Unsure
- e. How many were confirmed illicit discharges?  ☐ Unsure
- f. How many of the identified Illicit discharges did the municipality eliminate in the reporting year?  ☐ Unsure
- g. How many of the following enforcement mechanisms did the municipality use to enforce its illicit discharge ordinance? ☐ Unsure
- |  |                                |
|--|--------------------------------|
| <input checked="" type="checkbox"/> Verbal Warning         | <input type="text" value="0"/> |
| <input type="checkbox"/> Written Warning (including email) | <input type="text"/>           |
| <input type="checkbox"/> Notice of Violation               | <input type="text"/>           |
| <input type="checkbox"/> Civil Penalty/ Citation           | <input type="text"/>           |
- h. Any other Illicit Discharge Detection and Elimination program information for inclusion in the Annual Report may be added here or attached on the attachments page.

## Missing Information

Do not close your work until you **SAVE**.

Form 3400-224 (09/17)



## Minimum Control Measures - Section 4 : Complete

### 4. Construction Site Pollutant Control

- a. How many total construction sites were active at any point in the reporting year?  ☐ Unsure
- b. How many construction sites did the municipality issue permits for in the reporting year?  ☐ Unsure
- c. Do the above numbers include sites <1 acre? ☒ Yes ☐ No ☐ Unsure
- d. How many erosion control inspections did the municipality complete in the reporting year?  ☐ Unsure
- e. What types of enforcement actions does the municipality have available to compel compliance with the regulatory mechanism? Check all that apply and enter the number of each used in the reporting year. ☐ Unsure
- |   |                                 |
|---|---------------------------------|
| <input checked="" type="checkbox"/> Verbal Warning                    | <input type="text" value="60"/> |
| <input checked="" type="checkbox"/> Written Warning (including email) | <input type="text" value="15"/> |
| <input checked="" type="checkbox"/> Notice of Violation               | <input type="text" value="5"/>  |
| <input checked="" type="checkbox"/> Civil Penalty/ Citation           | <input type="text" value="1"/>  |
| <input type="checkbox"/> Stop Work Order                              | <input type="text"/>            |
| <input type="checkbox"/> Forfeiture of Deposit                        | <input type="text"/>            |
| <input type="checkbox"/> No Authority                                 | <input type="text"/>            |
| <input type="checkbox"/> Other - Describe below                       | <input type="text"/>            |
- f. Any other Construction Site Pollutant Control program information for inclusion in the Annual Report may be added here or attached on the attachments page.
- 

## Missing Information

Do not close your work until you **SAVE**.

Form 3400-224 (09/17)

## Minimum Control Measures - Section 5 : Complete

### 5. Post-Construction Storm Water Management

- a. How many new construction sites with new structural storm water management practices have received local approvals?  ☐ Unsure
- b. How many privately owned storm water facility inspections were completed in the reporting year?  ☐ Unsure
- c. What types of enforcement actions does the municipality have available to compel compliance with the regulatory mechanism? Check all that ☐ Unsure

apply and enter the number of each used in the reporting year.

<input checked="" type="checkbox"/> Verbal Warning	0
<input checked="" type="checkbox"/> Written Warning (including email)	4
<input checked="" type="checkbox"/> Notice of Violation	0
<input checked="" type="checkbox"/> Civil Penalty/ Citation	0
<input type="checkbox"/> Forfeiture of Deposit	
<input type="checkbox"/> Complete maintenance	
<input type="checkbox"/> Bill responsible part	
<input type="checkbox"/> No Authority	
<input type="checkbox"/> Other - Describe below	

d. Any other Post-Construction Storm Water Management program information for inclusion in the Annual Report may be added here or attached on the attachments page.

### Missing Information

Do not close your work until you **SAVE**.

Form 3400-224 (09/17)

### Minimum Control Measures - Section 6 : Complete

#### 6. Pollution Prevention

Storm Water Management Facility Inspections (ponds, biofilters, etc.) ☐ Not Applicable

- a. Enter the total number of municipally owned or operated structural storm water facilities ? 16 ☐ Unsure
- b. How many new municipally owned storm water facilities were installed in the reporting year ? 1 ☐ Unsure
- c. How many municipally owned storm water devices were inspected in the reporting year? 10 ☐ Unsure
- d. How many of these facilities required maintenance? 2 ☐ Unsure  
If so, attach report on attachments page.

Public Works Yards & Other Municipally Owned Properties (SWPPP Plan Review) ☐ Not Applicable

- e. How many inspections of municipal properties been conducted in the reporting year? 1 ☐ Unsure
- f. Have amendments to the SWPPPs been made? ☐ Yes ☒ No ☐ Unsure

Collection Services - *Street Sweeping / Cleaning Program* ☐ Not Applicable

g. Did the municipality conduct street sweeping/cleaning during the reporting year?

☒ Yes ☐ No ☐ Unsure

h. If known, how many tons of material was removed?

1453 ☐ Unsure

i. If street cleaning is identified as a storm water best management practice in the pollutant loading analysis, was street cleaning completed at the assumed frequency?

☒ Yes

☐ No - Explain \_\_\_\_\_

☐ Not Applicable

☐ Unsure

Collection Services - *Catch Basin Sump Cleaning Program* ☐ Not Applicable

j. Did the municipality conduct catch basin sump cleaning during the reporting year?

☒ Yes ☐ No ☐ Unsure

k. How many catch basin sumps were cleaned in the reporting year?

55 ☐ Unsure

l. If known, how many tons of material was removed?

☐ ☒ Unsure

m. If catch basin sump cleaning is identified as a storm water best management practice in the pollutant loading analysis, was cleaning completed at the assumed frequency?

☒ Yes

☐ No - Explain \_\_\_\_\_

☐ Not Applicable

☐ Unsure

Collection Services - *Leaf Collection Program* ☐ Not Applicable

n. Does the municipality conduct curbside leaf collection?

☒ Yes ☐ No ☐ Unsure

o. Does the municipality notify homeowners about pickup?

☒ Yes ☐ No ☐ Unsure

Where are the residents directed to store the leaves for collection?

☐ Pile on terrace ☐ Pile in street ☒ Bags on terrace ☐ Unsure

☒ Other - Describe

bags must be compostable

p. What is the frequency of collection?

3 to 4 consecutive Mondays in Oct/Nov

q. Is collection followed by street sweeping/cleaning?

☒ Yes ☐ No ☐ Unsure

Winter Road Management ☐ Not Applicable

\*Note: We are requesting information that goes beyond the reporting year, answer the best you can.



r. How many lane-miles of roadway is the municipality responsible for doing snow and ice control?  ☐ Unsure

s. Provide amount of de-icing products used by month last winter season?

Solids (tons) (ex. sand, or salt-sand)

Oct  Nov  Dec  Jan  Feb  March\*

Liquids (gallons) (ex. brine)

Oct  Nov  Dec  Jan  Feb  March\*

t. Was salt applying machinery calibrated in the reporting year? ☒ Yes ☐ No ☐ Unsure

u. Have municipal personnel attended salt reduction strategy training in the reporting year? ☒ Yes ☐ No ☐ Unsure

If yes, describe what training was provided:

When:

How many attended:

**Internal (Staff) Education & Communication**

v. Have training or education on SWPPPs for municipal facilities been held for municipal or other personnel? ☒ Yes ☐ No ☐ Unsure

If yes, describe what training was provided

When:

How many attended:

**Additional Pollution Prevention Information**

w. Any other Pollution Prevention program information for inclusion in the Annual Report may be added here or attached on the attachments page.

## Missing Information

Do not close your work until you **SAVE**.

Form 3400-224 (09/17)

## Minimum Control Measures - Section 7 : Complete

### 7. Storm Sewer System Map

a. Did the municipality update their storm sewer map this year? ☒ Yes ☐ No ☐ Unsure

If yes, check the areas the map items that got updated or changed:

☒ Storm water treatment facilities

☐ Storm pipes

☒ Vegetated swales



☐ Outfalls

☐ Other - Describe below

b. Any other Storm Sewer System Map information for inclusion in the Annual Report may be added here or attached on the attachments page.

## Missing Information

Do not close your work until you SAVE.

Form 3400-224 (09/17)

### Final Evaluation - Complete

#### Fiscal Analysis

Complete the fiscal analysis table provided below. For municipalities that do not break out funding into permit program elements, please enter the monetary amount to your best estimate of what funding may be going towards these programs.

Annual Expenditure Reporting Year	Budget Reporting Year	Budget Upcoming Year	Source of Funds
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**Element:** Public Education and Outreach

22500	27571	29464	<u>Storm water utility</u>
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**Element:** Public Involvement and Participation

21500	26346	28154	<u>Storm water utility</u>
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**Element:** Illicit Discharge Detection and Elimination

24500	30022	32083	<u>Storm water utility</u>
-------	-------	-------	----------------------------

**Element:** Construction Site Pollutant Control

10000	12254	13095	<u>Storm water utility</u>
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**Element:** Post-Construction Storm Water Management

23000	28184	30119	<u>Storm water utility</u>
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**Element:** Pollution Prevention

87500	107222	114582	<u>Storm water utility</u>
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**Element:** Storm Water Quality Management

143000	175231	187259	<u>Storm water utility</u>
--------	--------	--------	----------------------------

**Element:** Storm Sewer System Map

10000	12254	13095	<u>Storm water utility</u>
-------	-------	-------	----------------------------

**Other (describe)**

Overhead and debt payments
----------------------------

158000

193612

206902

Storm water utility

### Water Quality

**a:** Were there any known water quality improvements or degradation in the receiving waters to which the municipality's storm sewer system directly discharges to?

☐ Yes ☒ No ☐ Unsure      If Yes, explain below:

**b:** Have any of the receiving waters that the municipality discharges to been added to the impaired waters list during the reporting year?

☐ Yes ☒ No ☐ Unsure

**c:** Has the municipality evaluated their storm water practices to reduce the pollutants of concern?

☒ Yes ☐ No ☐ Unsure

### Additional Information

Based on the municipality's storm water program evaluation in Part II, describe any proposed changes to the municipality's storm water program.

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## Missing Information

Do not close your work until you SAVE.

Form 3400-224 (09/17)

### Requests for Assistance on Improving Permit Programs

Would municipality like the Department to contact them about providing more information on developing or improving any of the Municipal Separate Storm Sewer Permit programs?

Please select all that apply:

- ☐ Public Education and Outreach
- ☐ Public Involvement
- ☐ Illicit Discharge Detection and Elimination
- ☐ Post-Construction Storm Water Management
- ☐ Storm Water Quality Management
- ☐ Storm Sewer System Map
- ☐ Construction Site Pollutant Control
- ☐ Pollution Prevention
- ☐ Water Quality Concerns
- ☐ Compliance Schedule Items Due
- ☐ MS4 Program Evaluation



Do not close your work until you **SAVE**.

### Required Attachments and Supplemental Information

Any other MS4 program information for inclusion in the Annual Report may be attached on here. Use the Add Additional Attachments to add multiple documents.

Upload Required Attachments (15 MB per file limit) - [Help reduce file size and trouble shoot file uploads](#)

**\*Required Item**

**Note:** To replace an existing file, use the 'Click here to attach file ' link or press the to delete an item.

### Attach Documents

 File Attachment

[SWMgmtResponsibilities.pdf](#)

 File Attachment

[RegionalEducationandOutreach.pdf](#)

 File Attachment

[pondinspections.pdf](#)

(To remove additional items, use your cursor to hover over the attachment section. When the drop down arrow appears, select remove item)

### Draft and Share PDF Report with Municipality's Governing Body.

Press the button below to create a PDF. The PDF will be sent to the email address associated with the WAMS ID that is signed in. After the annual report has been approved by the governing body, you will have to come back to the MS4 eReporting system to submit the report to the DNR.

[Draft and Share PDF Report with Municipality's Governing Body](#)

## Sign and Submit Your Application

### Steps to Complete the signature process

1. Read and Accept the Terms and Conditions
2. Press the Submit and Send to the DNR button

NOTE: For security purposes all email correspondence will be sent to the address you used when registering your WAMS ID. This may be a different email than that provided in the application. For information on your WAMS account click [HERE](#).

### Terms and Conditions

**Certification:** I hereby certify that I am an authorized representative of the municipality covered under Menomonie, City MS4 Permit for which this annual report or other compliance document is being submitted, and that the information contained in this submittal and all attachments were gathered and prepared under my direction or supervision. Based on my inquiry of the person or persons under my direction or supervision involved in the preparation of this document, to the best of my knowledge, the information is true, accurate, and complete. I further certify that the municipality's governing body or delegated representatives have reviewed or been apprised of the contents of this annual report. I understand that Wisconsin law provides severe penalties for submitting false information.

Signee (must check current role prior to accepting terms and conditions)

- ☐ Authorized municipal contact using WAMS ID.
- ☐ Delegation of Signature Authority ( Form 3500-123 ) for agent signing on the behalf of the authorized municipal contact.
- ☐ Agent seeking to share this item with authorized municipal contact (authorized municipal contact must get WAMS id and complete signature).

Authorized Signature.

☐ I accept the above  
terms and conditions.

After providing the final authorized signature, the system will send an email to the authorized party and any agents. This email will include a copy to the final read only version of this application.

12/15/17

## City of Menomonie

### Storm Water Management and Erosion Control Responsibilities

#### Erosion Control (Title 9, Chapter 10, Erosion and Sediment Control)

- **Building Inspection Department**
  - Ensure Compliance with Title 9, Chapter 10, Erosion and Sediment Control
  - Review and Approve Erosion Control Plans
  - Issue Erosion Control Permits for Residential and Commercial Construction in the City
  - Inspect all Construction Sites to ensure compliance with Erosion Control Plan
    - Issue corrective action notices or citations as necessary
  - Issue Street Opening Permits with Erosion Control instructions
    - Copy of Street Opening Permit to the Street Department
- **Street Department (and other utilities as applicable)**
  - Obtain a Street Opening Permit (No Charge) from Building Inspection Department on all City initiated Street Openings
  - Ensure all public work sites are in compliance with Title 9, Chapter 10, Erosion and Sediment Control
  - Inspect all approved Street Opening Permits for Erosion Control and Inlet Protection
  - Issue Inlet Protection Bags to contractors with approved Street Opening Permits
  - Remove Inlet Protection Bags after final street repairs are complete



Director of Public Works

Date: 15 Dec 17

**Storm Water Management (Title 9, Chapter 10, Storm Water Management)**

- **Building Inspection Department**
  - With assistance of City Engineer and Director of Public Works, determine if a Storm Water (SW) Management Plan is required
  - Log in and receipt all Storm Water Management Plans
    - Send to Engineering Dept. (Cedar Corp) for review
    - Retain electronic copy for records
  - Maintain a file of approved private Storm Water Maintenance Plans
  - Inspect private storm water BMPs once every 3-years or as deemed necessary by the Director of Public Works
- **Engineering**
  - Review and Approve all storm water management plans
    - Send copy of approval/disapproval to Building Inspection Dept.
  - Maintain file of all approved SW Management plans
  - Inspect SW BMPs during construction
    - Request Completion Certification Letter from design engineer
    - Send notice to Building Inspection Dept. when SW BMP is complete and accepted (include copy of completion certification letter from design engineer)
  - Maintain a list/map of all private and public SW BMPs in the City
  - Ensure City is in compliance w/ TMDL requirements for MS4 Permit
    - Develop Reach Shed map and charts showing Phosphorus reduction status for City MS4 Permit
- **Street Dept.**
  - Conduct annual SW outlet and inlet inspection
    - Document results and corrective action
  - Conduct Illicit Discharge Inspections every year
    - Document results and any possible discharges
  - Maintain a list of public SW BMPs
  - Annually inspect all public SW BMPs
    - Document inspections and corrective action
  - Minimize salt usage during snow removal operations
  - Ensure street sweeping program is IAW with DNR permit
    - Yard waste pick-up program is conducted in Spring and Fall



Rain to Rivers Educational Events and Activities						
Event	Contact	Date	Time	Location	Who Was Involved	Description/Notes
Eau Claire River Implementation Team meeting	Dan Zerr	1/12/2017		Fall Creek	Dan Zerr, Kelly Jacobs	Monthly meeting of EC River Implementation Team, coordinating efforts to improve water quality throughout the EC River system
Eau Claire County Winter Garden Seminar	Dan Zerr	1/28/2017		Eau Claire	Dan Zerr	Did a 50 minute presentation on water, using it wisely in gardening, rain gardens, rain barrels, green infrastructure, etc. About 25 people present.
Red Cedar River Water Quality Partnership meeting	Dan Zerr	2/1/2017		Barron	Dan Zerr, Randy Elde, Lindsay Olson	Semi-monthly meeting of the RC Partnership, coordinating efforts to improve water quality throughout the RC River system
Math Counts Regional Competition	John Genskow	2/2/2017		Eau Claire	John Genskow	Event took place at DeLong Middle School, sponsored by National Society of Professional Engineers, Discussed storm water management practices between tests and awards
Eau Claire River Implementation Team meeting	Dan Zerr	2/9/2017		Fall Creek	Dan Zerr, Greg Leonard	Monthly meeting of EC River Implementation Team, coordinating efforts to improve water quality throughout the EC River system
Interview on WEAU TV for the Red Cedar River Conference	Dan Zerr	2/22/2017		Eau Claire	Dan Zerr	On-air interview about the Red Cedar River, the upcoming conference, and what people can do on their land to infiltrate water.
Urban Planning Class at UW-River Falls	Crystal Raleigh	2/28/2017		River Falls	Crystal Raleigh	Spoke with urban planning and development class at UW-RF on the basics of storm water in urban development.
Red Cedar River Conference	Dan Zerr	3/9/2017		Menomonie	Dan Zerr, Randy Elde, Landon Profaizer	Annual Red Cedar River Conference. Rain to Rivers had a booth, as did the City of Menomonie. Lots of education about infiltration.
LAKES REU Presentation	Dan Zerr	3/15/2017		Eau Claire	Dan Zerr	Nels Paulson, Chris Ferguson and Tina Lee from UW-Stout did a presentation at UW-Eau Claire about the Stout LAKES REU program. There was information about and discussion of the UWEC Water Street rain garden, and the rain garden recently planted at Lakeside Park in Menomonie.
Land & Water Conference Presentation	David Nashold	3/16/2017		Elkhart Lake	David Nashold	Presentation of Erosion Control and Stormwater Management - Just the Facts! Training on construction site erosion control and post-construction stormwater management with regard to applicability, plan review and permit compliance.
Red Cedar River Water Quality Partnership meeting	Dan Zerr	3/29/2017		Menomonie	Dan Zerr, Randy Elde, Lindsay Olson	Semi-monthly meeting of the RC Partnership, coordinating efforts to improve water quality throughout the RC River system

Certified Stormwater Inspector - Municipal	Chad Christianson	4/6/2017		Milwaukee	Chad Christianson, David Gray	Designed specifically for MS4 personnel, this course focuses on stormwater permit compliance as the key to restore and maintain the waters of the United States. Testing will be conducted. Students are expected to achieve a minimum overall score of 75% to be awarded 1.2 CEUs (Continuing Education Units) from National Stormwater Center, and a five (5) year CSI™ Inspector Certificate.
Eau Claire River Implementation Team meeting	Dan Zerr	4/13/2017		Fall Creek	Dan Zerr, Greg Leonard	Monthly meeting of EC River Implementation Team, coordinating efforts to improve water quality throughout the EC River system
Storm Water Education for St. Joseph's School	Randy Eide	4/18/2017		Menomonie	Randy Eide	3K and 4K students from St. Joseph's School came to city offices to learn about storm water pollution, street sweepers, and what they can do for water quality.
River Falls City Clean Up Walk	Crystal Raleigh	4/21/2017		River Falls	Crystal Raleigh, Mike Stifter	Led approximately 20 city employees on a walk to pick up trash from 8 miles of city streets and trails.
Wisconsin Young Professionals Week - Eau Claire Chamber of Commerce	John Genskow	4/21/2017		Eau Claire	John Genskow	Supplied storm water education materials for local information packet. Eau Claire was one of several locations statewide where members gathered for a weekend of meetings and activities
St. Croix River Summit	Crystal Raleigh	4/22/2017		River Falls	Crystal Raleigh, Mike Stifter	Participated in St. Croix Summit with discussions of urban storm water runoff along a one-mile walking tour of Lake George and the Kinnickinnic River.
Guest sermon at Unitarian Universalist Church in Eau Claire	Dan Zerr	4/23/2017		Eau Claire	Dan Zerr	Spoke to the congregation at UUC in Eau Claire about Earth Day, and touched on storm water and runoff issues. Handed out many coloring books and rain garden manuals.
River Falls High School Service Learning Day	Crystal Raleigh	4/25/2017		River Falls	Crystal Raleigh, Zach Regnier	Led a group of 12 high school juniors in storm drain stenciling project in River Falls. Stenciled 50 drains.
Tour of Lakeside Park rain garden	Dan Zerr	4/28/2017		Menomonie	Dan Zerr	A group of environmental studies students from UW-Eau Claire were given a tour of the Lakeside Park rain garden. Storm water issues and the greater phosphorus issues in the Red Cedar River watershed were discussed.
Rocky Branch ECO Day	Crystal Raleigh	4/28/2017		River Falls	Zach Regnier, Mike Stifter	Presented on the topic of storm water to Rocky Branch 3rd graders. Led students on a walk to clean up four storm water ponds.
Eau Claire River Implementation Team meeting	Dan Zerr	5/11/2017		Augusta	Dan Zerr, Greg Leonard	Monthly meeting of EC River Implementation Team, coordinating efforts to improve water quality throughout the EC River system

Rain Garden Planting	John Genskow		5/12/2017	Eau Claire	John Genskow	Eau Claire's staff Green Team planted a rain garden on May 12. This new feature at Central Maintenance Facility will not only treat pollutants in rainwater runoff before heading to the Chippewa River, but will also beautify a bare area along Forest Street.
Storm Water & Rain Garden Presentation	Zach Regnier		5/17/2017	River Falls	Zach Regnier	Presented on the topic of storm water and rain gardens to 140 students at the River Falls Montessori Elementary school.
American Public Works Week	Crystal Raleigh		5/22/2017 - 5/26/2017	River Falls	Crystal Raleigh, Zach Regnier, Mike Stifter	Presented on Public Works & Engineering to approximately 400 second graders in the River Falls School District. Presentations included topics on storm water and tours (touch a truck) of a street sweeper, snow plow, lawn mower, and loader.
Tree Planting	John Genskow		6/1/2017	Eau Claire	John Genskow	The City Forestry Division has begun spring tree planting. They are planting 400 trees this season, over a six-week period (that's approximately 67 trees per week!). A variety of trees are being planted, including Kentucky Coffee, Linden, Elm, Ginkgo, and more.
Eau Claire River Implementation Team meeting	Dan Zerr		6/8/2017	Augusta	Dan Zerr, Greg Leonard, Liz Fagen	Monthly meeting of EC River Implementation Team, coordinating efforts to improve water quality throughout the EC River system
Red Cedar River Water Quality Partnership meeting	Dan Zerr		6/14/2017	Barron	Dan Zerr, Randy Elde, Lindsay Olson	Semi-monthly meeting of the RC Partnership, coordinating efforts to improve water quality throughout the RC River system
Water Tour - UW Discovery Farms	Crystal Raleigh		6/22/2017	River Falls	Crystal Raleigh, Zach Regnier	<u>Gave Urban Storm Water City Tour to approximately 35 participants, many of whom were from the dairy industry. For more details, see article <a href="#">here</a>.</u>
Eau Claire River Implementation Team meeting	Dan Zerr		7/12/2017	Augusta	Dan Zerr, Greg Leonard, Liz Fagen	Monthly meeting of EC River Implementation Team, coordinating efforts to improve water quality throughout the EC River system
Northern Wisconsin State Fair	John Genskow		7/12-7/15/17	Chippewa Falls	John Genskow	Booth set up during the fair with information about storm water, rain barrels, projects in Chippewa Falls, etc.
St. Croix River Fest	Chad Christianson		7/18-7/23/17	River Falls	Chad Christianson	Many activities on the river and in classroom environments, including river paddles, clean-up work, "Just Add Water" education classes, and more.
West Central Wisconsin Regional Planning Commission Board meeting	Landon Profaizer		7/13/2017	Eau Claire	Chris Straight	Presented to the WCWRPC Board of 21 County Commissioners about Rain to Rivers and provided some of the materials developed for R2R such as the informational brochure, member information sheet, and the high school curriculum.

City of Eau Claire Open House	John Genskow		7/20/2017	Eau Claire	John Genskow	Presented updates and took comments on Storm Water Ordinance Revisions, BMP's, and rainfall
City of Eau Claire Plan Commission Presentation	John Genskow		7/31/2017	Eau Claire	John Genskow	Presented updates and took comments on Storm Water Ordinance Revisions, BMP's, and rainfall
Red Cedar River Water Quality Partnership meeting	Dan Zerr		8/2/2017	Menomonie	Dan Zerr, Randy Elde, Lindsay Olson	Semi-monthly meeting of the RC Partnership, coordinating efforts to improve water quality throughout the RC River system
UW-Stout LAKES REU student presentation	Dan Zerr		8/2/2017	Menomonie	Dan Zerr	Poster presentations from students spending the summer at UW-Stout studying many aspects of water quality concerns in the region, including biology, economics, sociology, and geology.
						WI Lakes Partnership chose to have a two-day meeting in Menomonie due to the issues with water quality in the region, and because of local efforts to address these issues, including storm water retention and the newly installed rain garden at Lakeside Park on Lake Menomin. Talks from various presenters included Dunn Co Land and Water Conservation, Tainter/Menomin Lake Improvement Association, Polk Co Land and Water Resources, Pepin Co Land Conservation, and others. The event also featured a pontoon tour of blue green algae issues on Tainter Lake.
Wisconsin Lakes Partnership meeting	Dan Zerr		8/3-8/4/17	Menomonie	Dan Zerr, Lindsay Olson, Dan Prestebak	Presented updates and took comments on Storm Water Ordinance Revisions, BMP's, and rainfall. City council adopted ordinance revisions on 8/8/17.
City of Eau Claire City Council Public Hearing	John Genskow		8/7/2017	Eau Claire	John Genskow	Monthly meeting of EC River Implementation Team, coordinating efforts to improve water quality throughout the EC River system
Eau Claire River Implementation Team meeting	Dan Zerr		8/10/2017	Augusta	Dan Zerr, Greg Leonard, Liz Fagen, John Genskow	Monthly meeting of EC River Implementation Team, coordinating efforts to improve water quality throughout the EC River system
Eau Claire River Implementation Team meeting	Dan Zerr		9/14/2017	Augusta	Dan Zerr	Presented on Urban Storm Water to 15 eighth graders in the Leadership River Falls youth program. After we learned about storm water, we split into groups of three and stenciled "No Dumping-Drains To Stream" messages on approximately 40 catch basins.
Leadership River Falls Youth	Crystal Raleigh		9/15/2017	River Falls	Crystal Raleigh	



STORM WATER ILLICIT DISCHARGE INSPECTION WORKSHOP	David Nashold	9/19/2017		Town of Lafayette	David Nashold	A workshop with municipal road patrolmen, DNR staff, and county staff to discuss procedures for illicit discharge inspection. The workshop is an update of similar sessions held in the past. The workshop accommodated both those municipalities that are preparing to conduct inspections as well as those that have performed inspections and are interested in completing reporting.
2017 Spirit of the St. Croix Art Festival	Chad Christianson	9/23-9/24/17		Hudson	Chad Christianson, Tom Zeuli	Storm water information was available at this event, along with the Rain to Rivers plinko board
Chippewa County Conservation Days	David Nashold	9/21/17 and 9/28/17		Chippewa Falls	David Nashold, Bill McElroy	Conservation presentations to 5th graders from Chippewa Falls school district including presentations on water quality.
Red Cedar River Water Quality Partnership meeting	Dan Zerr	10/4/2017		Barron	Randy Eide, Lindsay Olson	Semi-monthly meeting of the RC Partnership, coordinating efforts to improve water quality throughout the RC River system
Eau Claire River Implementation Team meeting	Dan Zerr	10/12/2017		Augusta	Dan Zerr	Monthly meeting of EC River Implementation Team, coordinating efforts to improve water quality throughout the EC River system
UW-Eau Claire field trip to Red Cedar Demonstration Farm	Dan Zerr	10/13/2017		Menomonie	Dan Zerr, Lindsay Olson	UW-Eau Claire Environmental Studies students participated in a field day at the Red Cedar Demonstration Farm discussing ag and urban runoff issues, and ways to mitigate such runoff.
Guest lecture to UW-Eau Claire environmental policy class	Dan Zerr	10/25/2017		Eau Claire	Dan Zerr	Lectured UW-EC env policy class on water quality issues, including storm water, ag runoff, and applicable policy.
Water Issues Public Forum	Dan Zerr	11/1/2017		Eau Claire	Dan Zerr	Zerr was part of a presentation and panel discussion about water quality issues in the region, focusing on both runoff issues and groundwater quality.
Celebrate the Chippewa River Conference	Landon Profaizer	11/3/2017		Eau Claire	Landon Profaizer, Dan Zerr	Booth set up during this conference, with information and educational materials regarding stormwater.
Eau Claire River Implementation Team meeting	Dan Zerr	11/9/2017		Augusta	Dan Zerr, Greg Leonard, Liz Fagen	Monthly meeting of EC River Implementation Team, coordinating efforts to improve water quality throughout the EC River system
UW-River Falls Class Tour	Zach Regnier	11/16/2017		River Falls	Zach Regnier	Conducted a tour of the City's stormwater practices for a class of four students from UW-River Falls.
Water Issues Public Forum	Dan Zerr	11/27/2017		Menomonie	Dan Zerr	Zerr was part of a presentation and panel discussion about water quality issues in the region, focusing on both runoff issues and groundwater quality.
Red Cedar River Water Quality Partnership meeting	Dan Zerr	12/6/2017		Menomonie	Randy Eide, Lindsay Olson, Dan Zerr	Semi-monthly meeting of the RC Partnership, coordinating efforts to improve water quality throughout the RC River system

Eau Claire River Implementation Team meeting	Dan Zerr	12/14/2017	Augusta	Dan Zerr, Greg Leonard, Liz Fagen	Monthly meeting of EC River Implementation Team, coordinating efforts to improve water quality throughout the EC River system
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# DETENTION POND INSPECTION FORM

LOCATION:

Riverview Drive Pond

DATE:

May 10 2017

POND 1

## EROSION

YES

LOCATION:

DATE FIRST NOTICED:

ACTION TAKEN:

NO

## SETTLING

YES

LOCATION:

DATE FIRST NOTICED:

ACTION TAKEN:

NO

## VEGETATION

YES

LOCATION:

DATE FIRST NOTICED:

ACTION TAKEN:

NO

## RIPEWIP

YES

LOCATION:

DATE FIRST NOTICED:

ACTION TAKEN:

NO

## SEDIMENT DEPOSITION

YES

LOCATION:

DATE FIRST NOTICED:

ACTION TAKEN:

NO

## CONTROL STRUCTURES

YES

LOCATION:

DATE FIRST NOTICED:

ACTION TAKEN:

NO

Deepest section of pond near outlet

CR Bryan long reach excavator  
Removed sediment

**DETENTION POND INSPECTION FORM**

LOCATION:

17th Street

DATE:

October 26, 2017

**POND 1**

**EROSION**

YES

LOCATION:

DATE FIRST NOTICED:

ACTION TAKEN:

NO

**SETTLING**

YES

LOCATION:

DATE FIRST NOTICED:

ACTION TAKEN:

NO

**VEGETATION**

YES

LOCATION:

DATE FIRST NOTICED:

ACTION TAKEN:

NO

**RIP-RAP**

YES

LOCATION:

DATE FIRST NOTICED:

ACTION TAKEN:

NO

**SEDIMENT DEPOSITION**

YES

LOCATION:

DATE FIRST NOTICED:

ACTION TAKEN:

NO

**CONTROL STRUCTURES**

YES

LOCATION:

DATE FIRST NOTICED:

ACTION TAKEN:

NO

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western most bay  
Labour Day weekend  
CR Bryan Long Reach Excavator  
skipped thin layer of silt off

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\_\_\_\_\_





engineers | architects | planners | environmental specialists  
land surveyors | landscape architects | interior designers

# MEMO

604 Wilson Avenue  
Menomonie, WI 54751  
715-235-9081  
800-472-7372  
FAX 715-235-2727  
www.cedarcorp.com

**DATE:** March 13, 2018  
**TO:** Randy Eide, City of Menomonie  
**FROM:** Robert Jones  
**REGARDING:** TMDL Modeling Update.

Cedar Corporation has been assisting the City with updated Non-Point Source Phosphorus modeling compliant with the following documents:

1. Phosphorus Total Maximum Daily Loads (TMDL), Tainter Lake and Lake Menomin, approved by the EPA on September 14, 2012
2. Bureau Of Watershed Management Program Guidance, TMDL Guidance for MS4 Permits, released by the WDNR on October 28, 2014.

The primary goal of this modeling effort was to estimate the current total phosphorus generated and captured within the identified Lake Menomin TMDL areas. Together the TMDL and the WDNR guidance documents set a phosphorus reduction goal for the identified area of 46% compared to no controls. The City of Menomonie, TMDL area, is currently reducing 26% of the phosphorus in surface runoff through existing best management practices (BMPs)

Previous planning efforts identified 5,944 acres within TMDL area generating a modeled 1,245 pounds of phosphorus annually. Within this area, we identified 10 best management practices (BMP) which captured 242 pounds annually (19%). Private BMPs constructed under a City stormwater permit are estimated to capture an additional 81 pounds annually (7%). The TMDL area was broken into five sub-basins or "reachsheds" shown on the attached map. The individual reach results are presented below:

Reachshed	Acres	TP Loading (lbs)	Public BMP TP Captured (lbs)	Private BMP TP Captured (lbs)	Total % Reduction	TP Capture Goal (lbs)	% Reduction Goal
East	402	123	19	3	18%	56	46%
Hospital	1961	370	98	42	38%	170	46%
Industrial	1266	184	46	6	28%	85	46%
Island	24	14	0	0	0%	6	46%
North	2292	555	80	30	20%	256	46%
Grand Total	5944	1245	242	81	26%	573	46%

## WATER QUALITY ANALYSIS METHODOLOGY

Water quality model was completed using WinSLAMM (Source Loading and Management Model for Windows) created by PV & Associates, in association with the Wisconsin Department of Natural Resources (WDNR). This program is used to predict runoff volumes and non-point sources pollution loads based on land covers, land uses, soils, storm water treatment practices, and historical rainfall events. WinSLAMM has evolved over time. Various versions of the model have increased or decreased the effectiveness of various treatment practices.

WinSLAMM utilizes small storm hydrology in the calculation regime. The basis being that the majority of the runoff volume and pollutants in urban areas are from the small and medium rainfall events. WinSLAMM uses rainfall data files created by the United States Geological Survey (USGS). The pollutant analysis for the City of Menomonie uses the WisREG – Minneapolis MN 1959 Rainfall file.

WinSLAMM also uses other data files from the USGS for pollutant concentrations, pollution distributions, pollutant deliveries and pollutant particle size distributions for typical storm water runoff. The pollutant analysis is based on the standardized urban land uses within the City of Menomonie and various pervious and impervious areas within the land use. The data files are periodically revised; therefore, it is important to note which data files have been used in the analysis. It is also important to note the version of WinSLAMM used in the calculations. The following table, 3-1, lists the data files used in the analysis. WinSLAMM 10.3.2 was released on August 5, 2017.

WinSLAMM 10.3.2 Standard File Data:

File Data Description	File
Rain File	WisReg – Minneapolis MN 1959.ran
Pollutant Probability Distribution File	WI_GEO03.ppd
Runoff Coefficient File	WI_SL06 Dec06.rsv
Particulate Solids Concentration File	v10.1 WI_AVG01.psc
Street Delivery File (Residential LU)	WI_Res and Other Urban Dec06.std

## WATER QUALITY ANALYSIS TMDL

A permitted MS4 with an approved TMDL plan is required to contain an expression of the Waste Load Allocation (WLA) consistent with the assumptions in the TMDL. The Tainter Lake and Lake Menomin TMDL assumes a 20% TSS reduction as the baseline loading condition. Building on established methodologies, the preferred option for implementing TMDLs is percent reduction terminology similar to NR 151 therefore the conversion to the no-controls modeling condition is as follows:

$$\text{TSS Percent Reduction (No Controls)} = 20 + (0.80\% * \text{Control from baseline in TMDL})$$

Equation 5-1: 20% TSS Reduction Baseline Equation

$$\text{TP Percent Reduction (No Controls)} = 15 + (0.85\% * \text{Control from baseline in TMDL})$$

Equation 5-2: 20% TP Reduction Baseline Equation

The percent reduction (no controls) requirements from the TMDL are adjusted per the above referenced equations. The required percent reductions for TP for each sub basin are summarized in the following table:

Basin	TP % Reduction from Baseline TMDL Report	TP % Reduction (no-controls)
Menomonie MS4	37%	46%

### Base Loading (No Controls)

The No-Controls condition establishes an annual TP load generated by the City of Menomonie based on land uses and soils within the study area. The no-controls condition does not include removal of the pollutants by BMP. The no controls loads are used to determine the required TSS and TP load reduction. The following table summarizes the no control condition and the target load reduction for the City of Menomonie.

Reachshed	Acres	TP (lbs)	Reduction Goal	TP Captured Goal (lbs)
East	402	123	46%	56
Hospital	1961	370	46%	170
Industrial	1266	184	46%	85
Island	24	14	46%	6
North	2292	555	46%	256
Grand Total	5944	1245	46%	573

## Existing Condition

Ten existing BMPs were included in the analysis. These include nine city constructed vegetated swales and a wet detention pond with infiltration basin within the TMDL reachsheds. The location of each BMP is shown on the attached map.

The following tables summarize effectiveness of each of the modeled BMPs. A more detailed summary of the pollutant reduction per basin can be found in appendices of this report.

Public BMP ID	Acres Treated	TP Loading (lbs)	TP Captured (lbs)	% Reduction
1	270	24	22	92%
2	314	67	51	75%
3	33	11	7	61%
4	200	76	34	45%
5	61	35	5	13%
6	702	55	48	87%
7	187	15	11	76%
8	79	16	10	67%
9	625	47	35	75%
10	115	29	19	65%
Grand Total	2586	374	242	65%

Since 2008, the City has enforced a Stormwater Management Ordinance (Chapter 9-11). All new development and land disturbing activity is required to meet stormwater performance standards for: rate, infiltration, and TSS reduction and provide the City with a Maintenance Agreement requiring private upkeep and City compliance authority. This has resulted in private BMPs which the City has the authority to inspect and maintain. These private facilities have not yet been incorporated individually into this model. However, we present the following estimates based upon the acreage in each reachshed with a City stormwater permit.

Private BMPs by Reachshed	Stormwater Permitted Development (acres)	TP Loading (lbs)	Estimated Private BMP Captured (lbs)
East	22	6	3
Hospital	223	84	42
Industrial	94	12	6
Island	0	0	0
North	135	61	30
Grand Total	474	162	81



## STORMWATER QUALITY PRACTICES

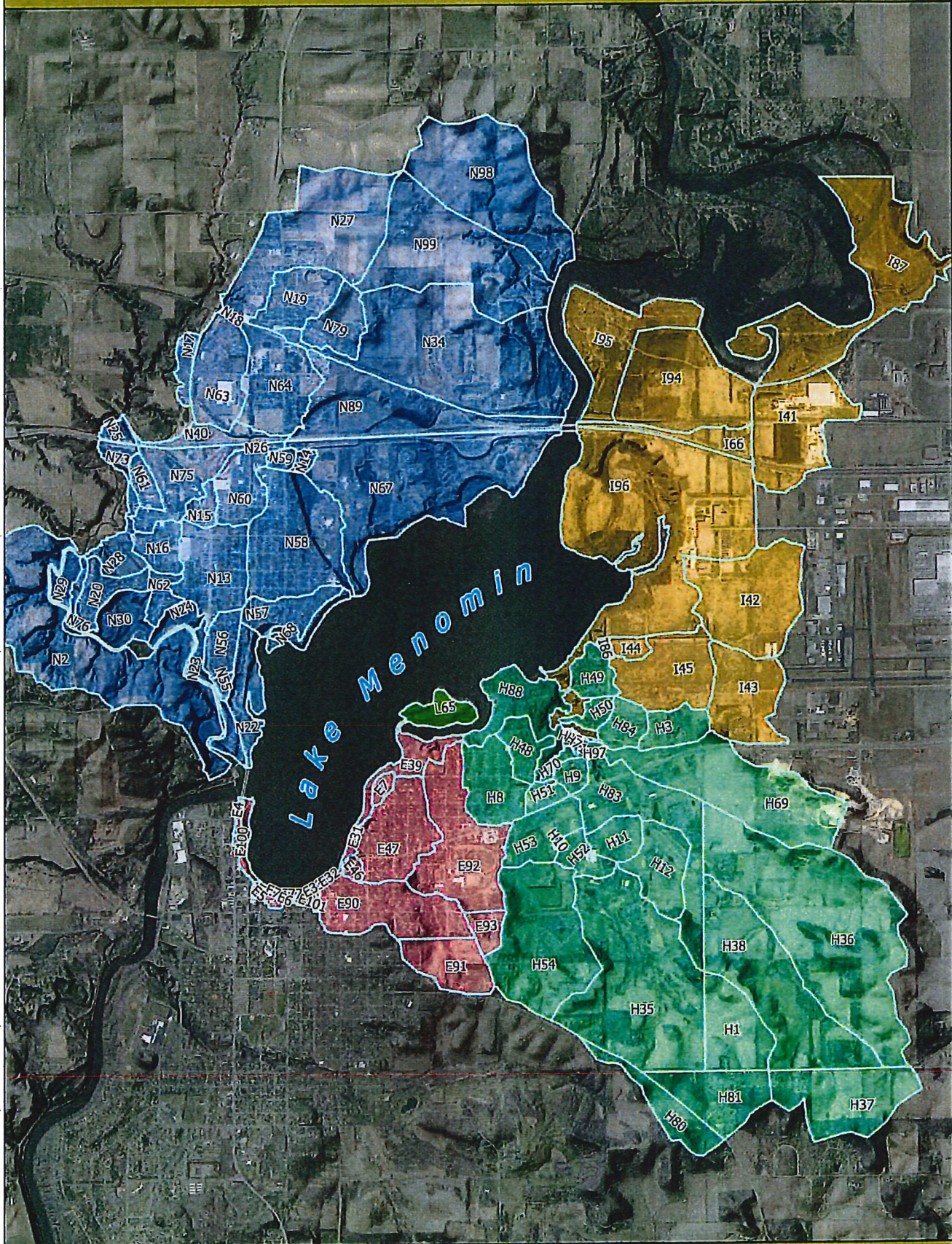
The current model shows that the selected BMPs alone to not reach the phosphorus reduction goals for the City TMDL. Below are some of the efforts that the City is continuing or considering completing which would affect the phosphorus treatment and modeled results in the future:

1. Maintain the City Stormwater Utility
2. Continue stream bank stabilization with projects like the 2015 Jarret Creek stabilization
3. Continue to remove legacy sediment phosphorus from water ways with projects like the planned 2018 Jarret Creek dredging project
4. Continue street cleaning and leaf pick-up practices
5. Complete the City modeling and GIS system:
  - a. verify the TMDL boundaries
  - b. revise sewer-shed areas to reflect recent revisions
  - c. gather data on private BMPs to incorporate into the model
  - d. review sites for additional, existing, vegetated swales and small BMPs
  - e. review for exempt areas such as: large undeveloped tracts of land, internally drained areas, highways not under City jurisdiction, riparian areas
  - f. incorporate street sweeping practices into modeled BMPs
  - g. update GIS parcels with stormwater permit approvals
6. Continue to implement the 2014 Amendment to the Urban Stormwater Plan recommendations, including the construction of regional stormwater BMPs like the 2017 Regional Pond #7 project:
  - a. 29<sup>th</sup> Ave NW Pond, 240 acre watershed, 31 lbs TP captured annually
  - b. 21<sup>st</sup> Ave NE Pond, 240 acre watershed, 70 lbs TP captured annually
  - c. Wakanda Park Pond, 150 acre watershed, 28 lbs TP captured annually
  - d. Junction Trail Pond, 70 acre watershed, 23 lbs TP captured annually
  - e. 2<sup>nd</sup> St W Pond, 150 acre watershed, 48 lbs TP captured annually
  - f. 9<sup>th</sup> St E Pond, 130 acre watershed, 33 lbs TP captured annually
  - g. 4<sup>th</sup> Ave E Pond, 870 acre watershed, 82 lbs TP captured annually





# City of Menomonie TMDL Sub-Watersheds



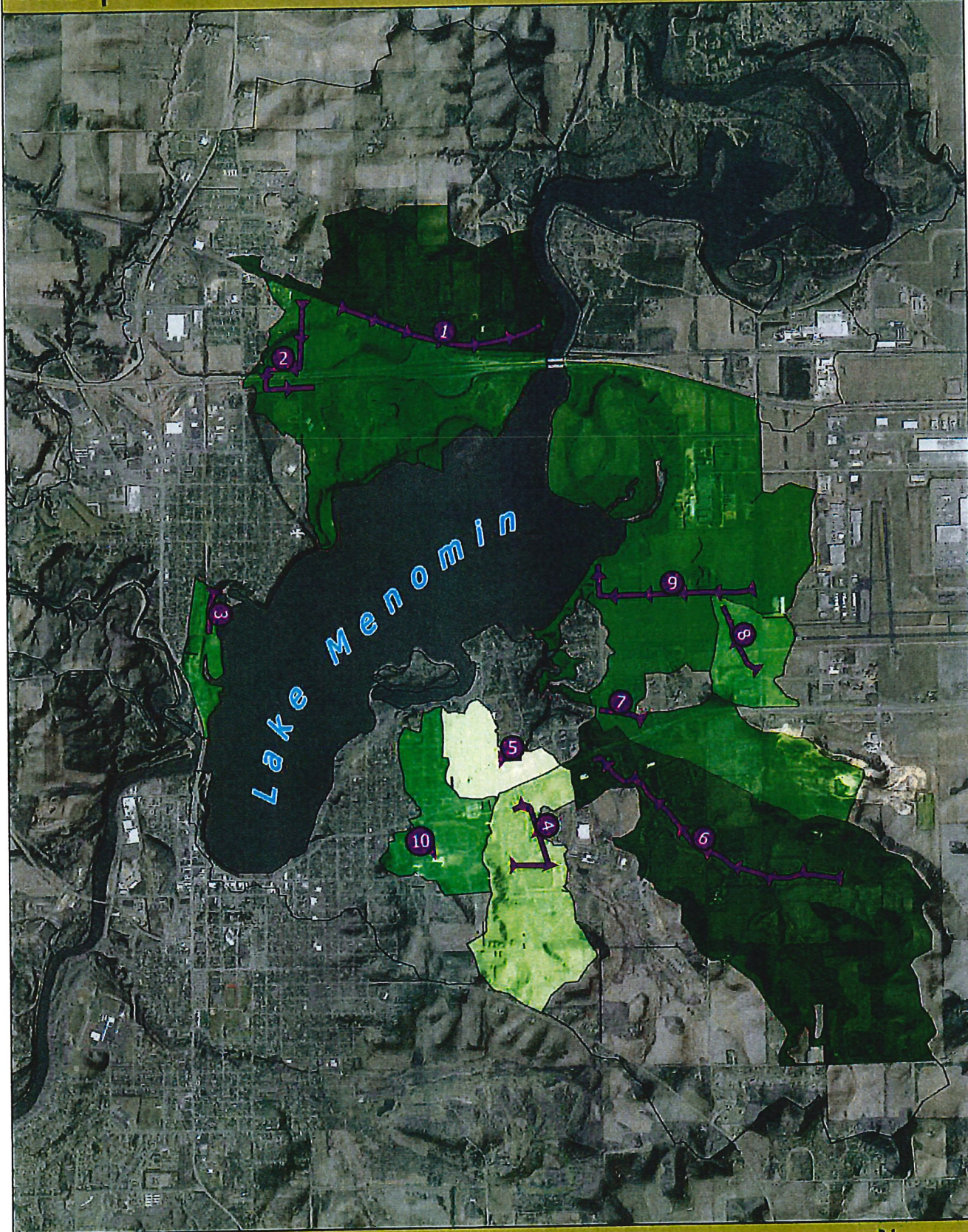
- North
- Industrial
- Hospital
- East
- Island



0 2000 4000 ft



# Best Management Practice Total Phosphorus Removal Percentage



Percent of Phosphorus Captured



0 2000 4000 ft

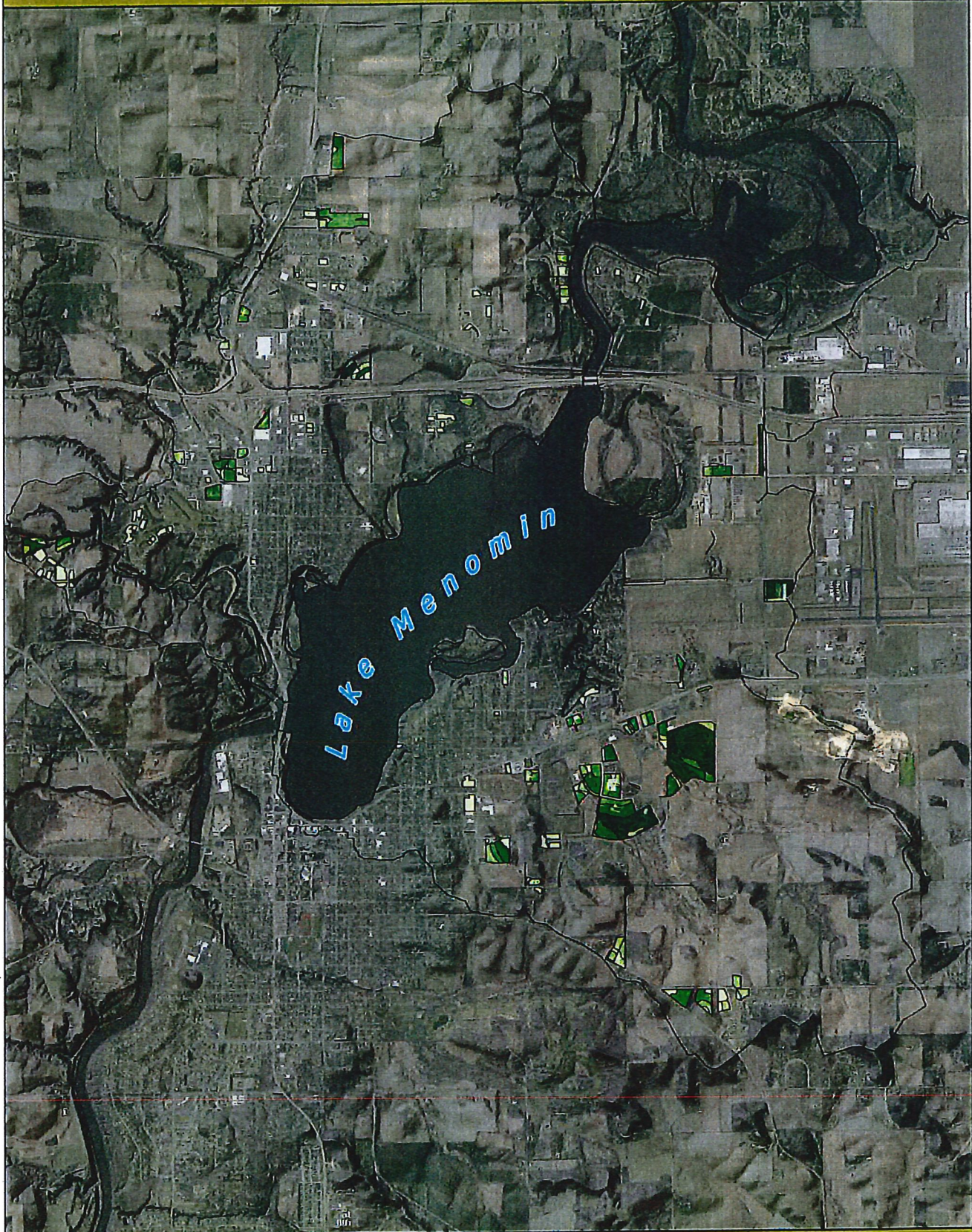
1" = 2,000'



**Cedar**  
Corporation



# Estimated Private Best Management Practice Phosphorus Capture (lbs)

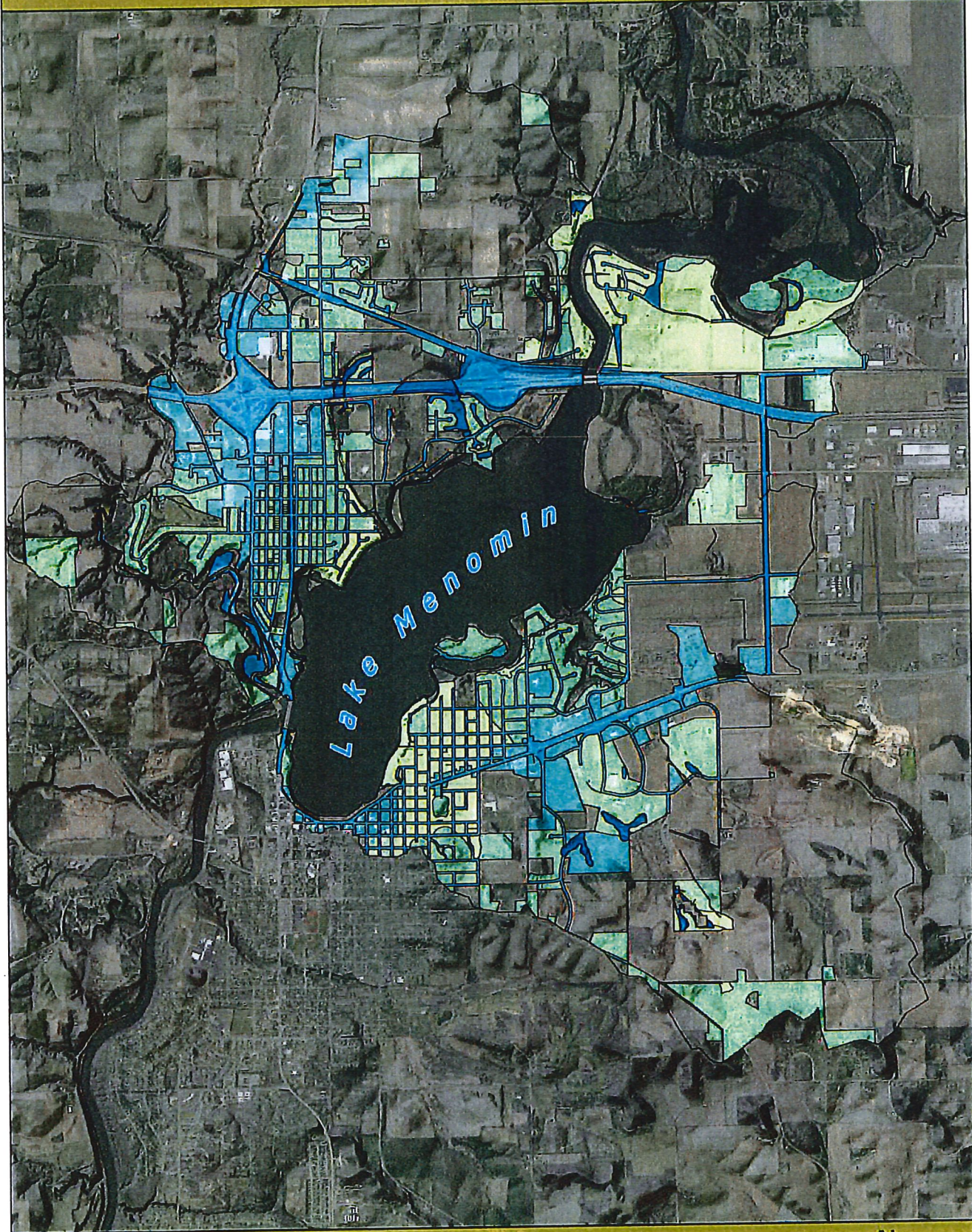


Total Pounds of Captured Phosphorus





# Total Phosphorus (TP) Loading (lbs/acre)



Pounds of Phosphorus



0 2000 4000 ft  
1:28,000





## Memo

**To:** Lowell Prange, City Administrator  
**From:** Gary Barnett, Parks and Recreation Director  
**Date:** March 14, 2018  
**Re:** Replacement Vehicle for Parks and Recreation Department

Bids were received from three vendors for the budgeted purchase of a replacement vehicle for the Recreation Department. This vehicle will replace a 2004 van currently used by the department.

Vendor	Type of Vehicle	Comments	Final Bid Price
Northtown Ford - Menomonie	Ford 2018 Edge SE AWD	Met bid specifications	\$26,429.00
Keyes Chevrolet - Menomonie	Chevrolet 2018 Equinox LS	Bid alternate incl. 17" tires, 1.5L engine and delivery 7/15/18	\$22,900.00
Johnson Motors - Menomonie	GMC 2018 Terrain SLE	Met bid specifications	\$23,088.75

Based on the bids received, I would recommend that the bid be awarded to Johnson Motors for the GMC 2018 Terrain SLE. Copies of the bid specifications and actual bids are attached.



**BUSINESS NAME:** Johnson Motors

**1. TYPE OF VEHICLE:**

New Midsize Crossover SUV

**2. SPECIFICATIONS STANDARDS FOR VEHICLE:**

AWD

5 passenger

Year Range 2017-2018

Engine - Minimum 2.0L

Transmission: Automatic

Seat Type Cloth Front Bucket, Manual seat adjusters

Second Row Seats: 60/40 Fold Rear Seat

Cruise Control

Power Steering, door locks, power windows

Air Conditioning

Full Instrumentation w/ LCD Screen

Rear View Camera

AM/FM/CD/MP Radio

18" Wheels w/ aluminum rims

Paint Color – Grey or Blue

**3. PRICING FOR VEHICLE:**

Make \_\_\_\_\_ Model \_\_\_\_\_

Warranty \_\_\_\_\_

Unit Price \$ \_\_\_\_\_

Less Trade In 2004 Ford Freestar Van: \_\_\_\_\_

Delivery: \$ \_\_\_\_\_ Expected Delivery Date: \_\_\_\_\_

**TOTAL:** \$ \_\_\_\_\_